

**Notice of Allowability**

Application No.

09/229,849

Examiner

JEAN B. FLEURANTIN

Applicant(s)

SERRANO, MARTIN

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/02/05.
2. ☒ The allowed claim(s) is/are 1,2,4-11,13-20 and 22-39.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 9/2/5, 9/6/5
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**SHAHID ALAM**  
**PRIMARY EXAMINER**

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#### **DETAILED ACTION**

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2 September 2005 has been entered.

2. Claims 1, 2, 4-11, 13-20 and 22-39 remain pending for examination.

#### ***Information Disclosure Statement***

3. The information disclosure statement (IDS) submitted on 09/02/05 and 09/06/05. Complies with the provisions of MPEP 609. It has been placed in the application file. The information referred to therein has been considered as to its merits.

#### ***Drawings***

4. The drawings were received on 08/22/05. These drawings are accepted and have been placed in the application file.

### REASONS FOR ALLOWANCE

5. With respect to claims 1, 2, 4-11, 13-20 and 22-39 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

With respect to claims 1, 2, 10, 11, 28, 29, 32 and 33, the claimed features "a method for parallelizing a computer application program based on a script of a script-driven software tool, comprising automatically analyzing the script and producing a parallel computation specification based on such analysis, where such parallel computation specification provides functional equivalence to the script when executed by a parallel runtime system, by parsing script into statements comprising at least processing steps and dataset definitions" in conjunction with other elements of the independent claims would not found anticipated or obvious over the prior art made of record. With respect to claims 19, 20, 36 and 37, the claimed features "a system for parallelizing a computer application program based on a script of a script-driven software tool, and for automatically analyzing the script and producing a parallel computation specification based on such analysis, where such parallel computation specification provides functional equivalence to the script when executed by a parallel runtime system, including means for parsing script into statements comprising at least processing steps and dataset definitions" in conjunction with other elements of the independent claims would not found anticipated or obvious over the prior art made of record. With respect to claims 30, 31, 34, 35, 38 and 39, the claimed features "a method for parallelizing a computer application program based on a script of a script-driven software tool, comprising automatically analyzing the script and producing a parallel computation specification based on such analysis, where such parallel computation specification provides functional equivalence to the script when executed by a parallel runtime system, by parsing script into statements; constructing a dataset access table based on the serial dataset access table; and determining, for each processing step identified in the parallel processing step table, if a corresponding pre-defined parallelization rewrite rule exists for such processing step, and if so, then applying the corresponding pre-defined parallelization rewrite rule to redefine associated entries in the parallel dataset table, the parallel processing step table, and the

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dataset access table as parallel processing entries" in conjunction with other elements of the independent claims would not found anticipated or obvious over the prior art made of record.

The dependent claims, being definite, further limiting, and fully enabled by the specification are also allowed.

The closest prior art, Ruf, U.S. Patent Number 6,077,313 relates to the field of dataflow analyses for computer programs. Bodin et al., A user level program transformation tool but fail to teach the above limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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#### CONTACT INFORMATION

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEAN B. FLEURANTIN whose telephone number is 571 – 272-4035. The examiner can normally be reached on 7:05 to 4:35.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JOHN E BREENE can be reached on 571 – 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-308-6606.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

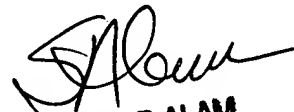


Jean Bolte Fleurantin

Patent Examiner

Technology Center 2100

October 14, 2005



SHAHID ALAM  
PRIMARY EXAMINER